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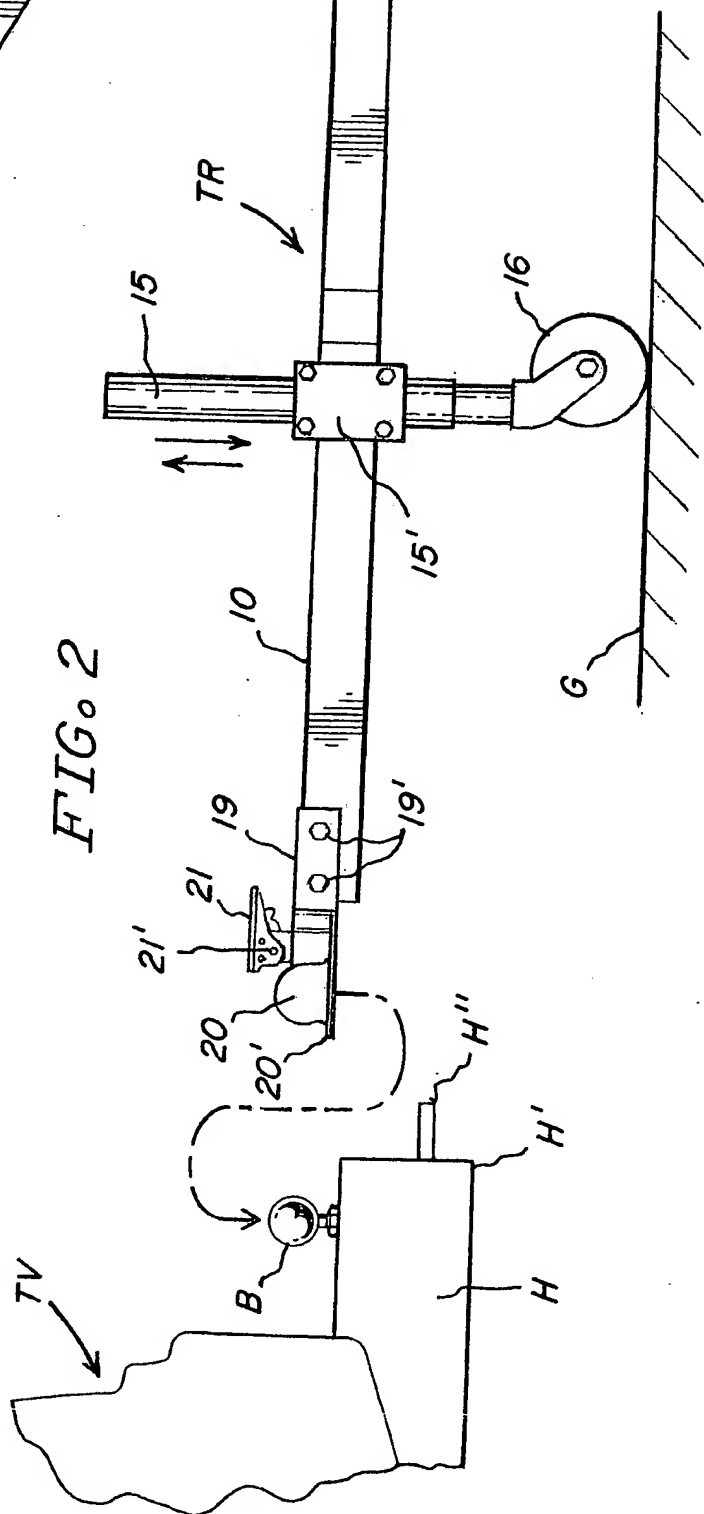
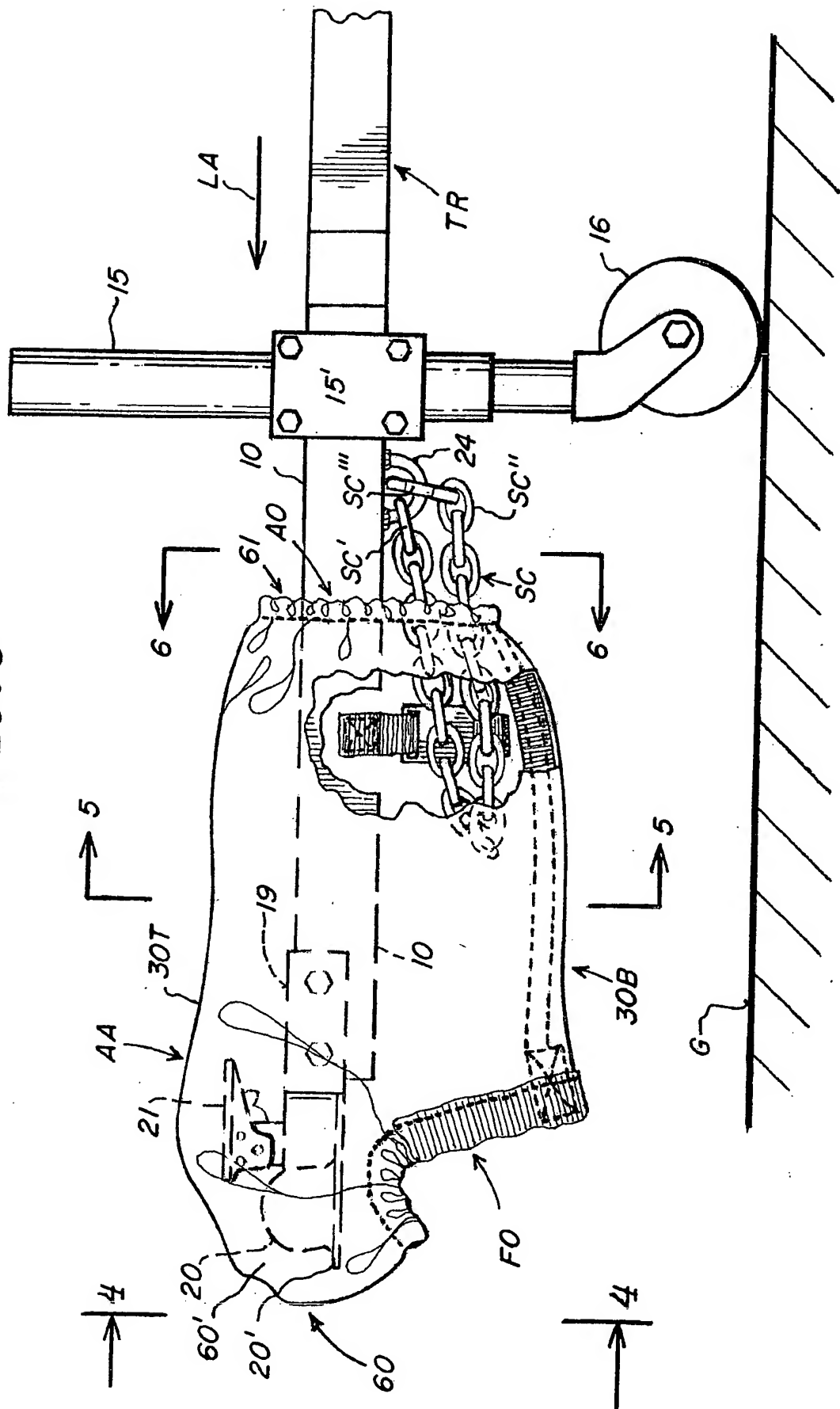
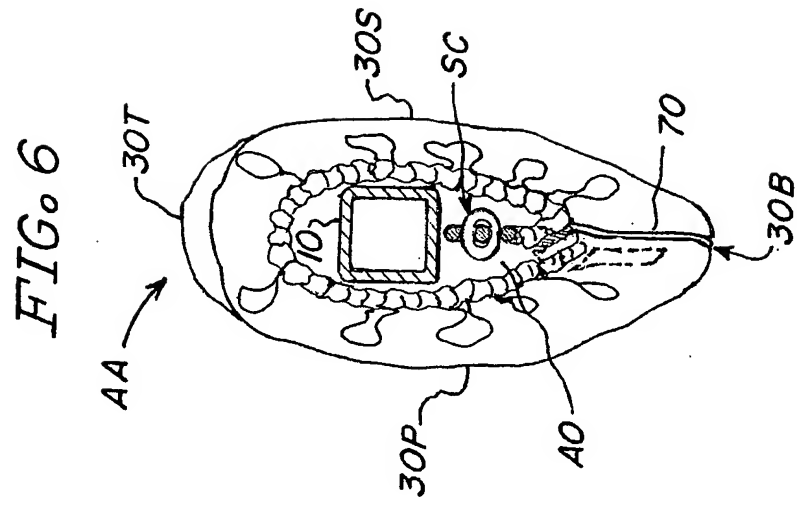
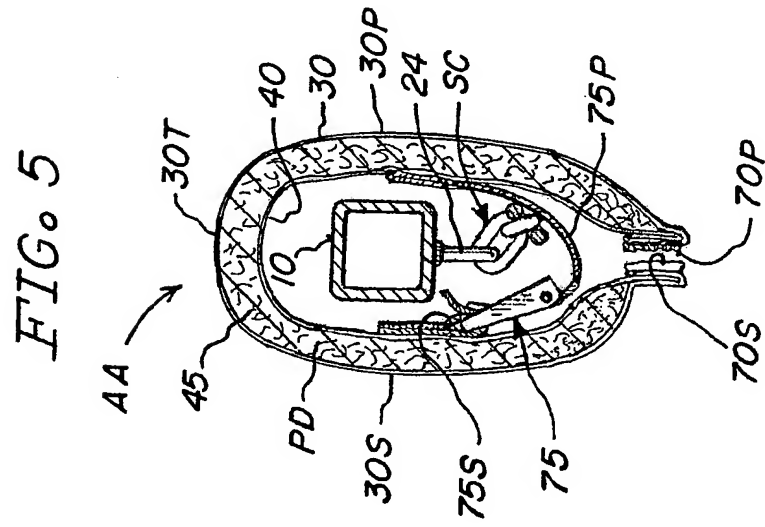
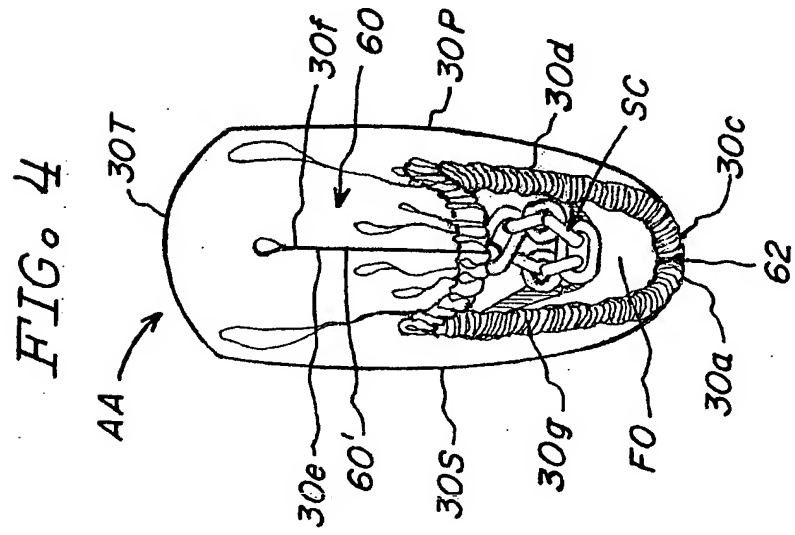


FIG. 3





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FIG. 7

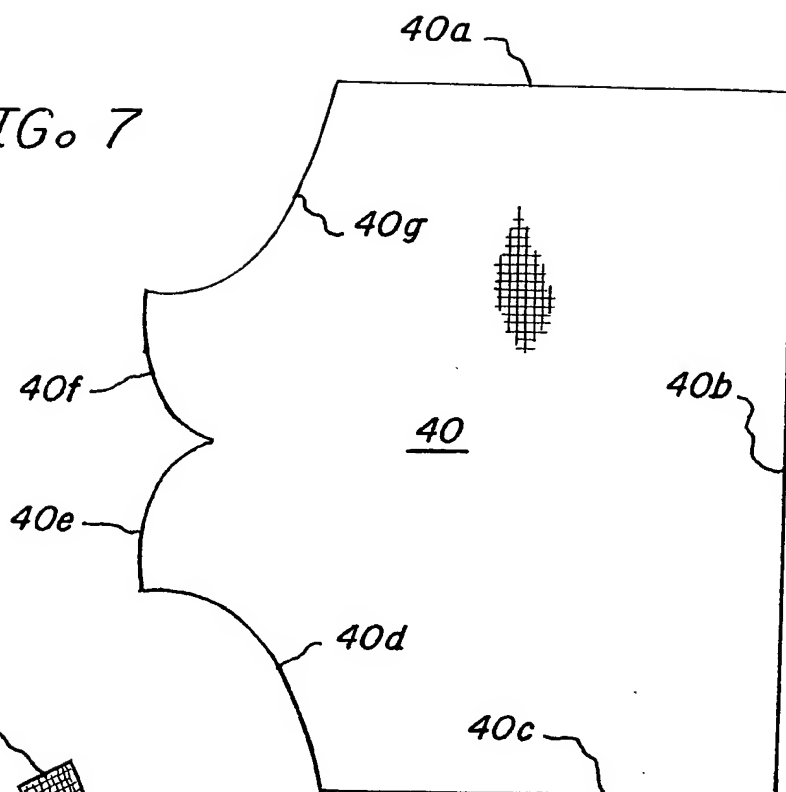


FIG. 8

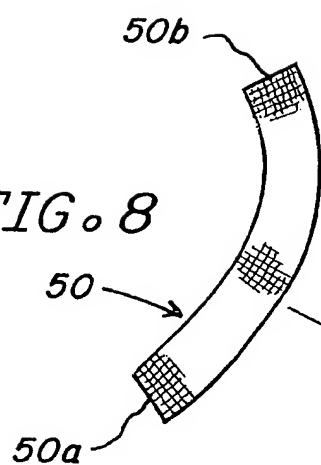
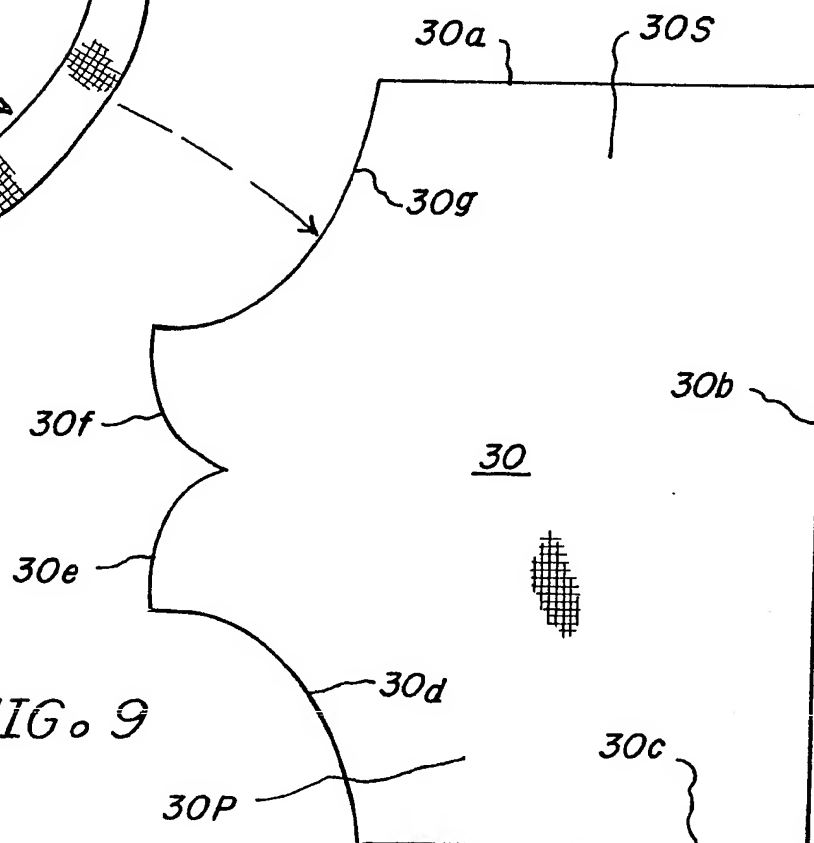


FIG. 9



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FIG. 11

The diagram illustrates a mechanical testing apparatus. A horizontal beam 15 is mounted on a vertical support 16. A pulley system consisting of a fixed pulley 24 and a movable pulley SC' is used to apply a load to a material sample 90. The sample is held between two grips, one of which is labeled 60. A section of the sample is indicated as 61. A force or displacement measurement element 30B is applied to the bottom of the sample. Other components and labels include TV (top view), AA (cross-section), 30T (tension), 10 (rod), 92 (sample surface), H (horizontal guide), and G (ground).